Amendments to the Claims

Claims 1-11 (Cancelled)

12.   (Previously Presented) A method for managing a broadband modem, comprising:

transmitting a discovery signal over a connection;

entering a connect state in response to receiving a discovery acknowledge signal;

recording a media access control (MAC) address corresponding to the broadband

modem, the broadband modem to transmit the discovery acknowledge

signal in response to the discovery signal; and

transmitting a terminate message to other broadband modems connected to the

connection.

13.   (Previously Presented) The method of claim 12, further comprising specifying

data formats supported in the discovery signal.

14.   (Previously Presented) The method of claim 12, further comprising recording a

data format selected by the broadband modem in the discovery acknowledge

signal.

15.   (Currently Amended) The method of claim 12, further comprising:

sending a poll message to the broadband modem; and

entering a disconnect state if a poll acknowledge message is not received in

response to the poll message within a predefined period of time.

16.   (Previously Presented) The method of claim 12, further comprising transmitting a

sleep message to the broadband modem indicating that its binding client system is

about to enter into a sleep state.

17.   (Currently Amended) A method for managing a broadband modem, comprising:

transmitting a discovery acknowledge signal over a transmission medium in

response to receiving a discovery signal from a first client computer

system;

forwarding asynchronous transfer mode (ATM) ATM cells between the first

client computer system and an asymmetrical digital subscriber line

(ADSL) ADSL;

generating and verifying a header error control (HEC) field in the ATM cells cell;

entering a sleep state and disabling an activity timer upon receiving a sleep

message from the first client computer system;

entering a connect state upon receiving a wake-up event from a second client

computer system; and

entering a disconnect state if the a poll message is not received from the first

client computer system within the a predetermined period of time.

18.   (Previously Presented) The method of claim 17, further comprising specifying a

data format supported by the broadband modem among data formats specified in

the discovery signal.

19.   (Currently Amended) The method of claim 17, further comprising:

transmitting a poll acknowledge message in response to receiving the poll

message; and

entering the disconnect state if the poll message is not received within a the

predetermined period of time.

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Claims 20-23 (Cancelled)

24.   (Currently Amended) A machine-readable medium having stored thereon ~~date~~

       data including sets of instructions which, when executed by a machine, cause the

       machine to:

       transmit a discovery signal over a connection;

       enter a connect state in response to receiving a discovery acknowledge signal;

       record a media access control (MAC)~~MAC~~ address corresponding to ~~the~~ a

              broadband modem, the broadband modem to transmit the discovery

              acknowledge signal in response to the discovery signal; and

       transmit a terminate message to other broadband modems connected to the

              connection.

25.   (Previously Presented) The machine-readable medium of claim 24, wherein the

       sets of instructions which, when executed by the machine, further cause the

       machine to specify data formats supported in the discovery signal.

26.   (Previously Presented) The machine-readable medium of claim 24, wherein the

       sets of instructions which, when executed by the machine, further cause the

       machine to record a data format selected by the broadband modem in the

       discovery acknowledge signal.

27.   (Original) The machine-readable medium of claim 24, wherein the sets of

       instructions which, when executed by the machine, further cause the machine to:

       send a poll message to the broadband modem; and

       enter a disconnect state if a poll acknowledge message is not received in response

              to the poll message within a predefined period of time.

Claims 28-29 (Cancelled)

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30.   (Currently Amended) A method for establishing an <u>asynchronous transfer mode</u>

          <u>(ATM)</u> ~~ATM~~ signal for transmitting an ATM cell from a first computer system to

          a second computer system, comprising:

          transmitting the ATM cell from the first computer system to a given one of a

                     plurality of broadband modems, the plurality of broadband modems

                     configured to operate as peripherals;

          transmitting a discovery signal from the second computer system to the plurality

                     of broadband modems;

          the given one of the plurality of broadband modems transmitting a discovery

                     acknowledge signal to the second computer system in response to the

                     discovery signal to establish a binding between the second computer

                     system and the given one of the plurality of broadband modems; and

          the second computer system entering into a connect state with the given one of the

                     plurality of broadband modems to accept the ATM cell from the given

                     broadband modem.

31.   (Previously Presented) The method of claim 30, further comprising specifying

          data formats supported in the discovery signal.

32.   (Currently Amended) A machine-readable medium having stored thereon data

          including sets of instructions which, when executed by a machine, cause the

          machine to:

          transmit a discovery signal over a connection;

          transmit <u>an asynchronous transfer mode (ATM)</u> ~~the ATM~~ cell from a first

                     computer system to a given one of a plurality of broadband modems, the

                     plurality of broadband modems configured to operate as peripherals; and

transmit a discovery signal from a second computer system to the plurality of

broadband modems;

the given one of the plurality of broadband modems transmit a discovery

acknowledge signal to the second computer system in response to the

discovery signal to establish a binding between the second computer

system and the given one of the plurality of broadband modems; and

the second computer system enter into a connect state with the given one of the

plurality of broadband modems to accept the ATM cell from the given

broadband modem.

33.   (Previously Presented) The machine-readable medium of claim 32, wherein the

sets of instructions which, when executed by the machine, further cause the

machine to specify data formats supported in the discovery signal.

34.   (Previously Presented) The machine-readable medium of claim 32, wherein the

sets of instructions which, when executed by the machine, further cause the

machine to record a data format selected by the given one of the plurality of

broadband modems in the discovery acknowledge signal.

35.   (Previously Presented) The method of claim 30, further comprising recording a

data format selected by the given one of the plurality of broadband modems in the

discovery acknowledge signal.

36.   (Currently Amended) A system for establishing an <u>asynchronous transfer mode</u>

<u>(ATM)</u> ATM signal for transmitting an ATM cell from a first computer system to

a second computer system, comprising:

the first computer system to transmit the ATM cell to a given one of a plurality of

broadband modems, the plurality of broadband modems configured to

operate as peripherals;

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the second computer system coupled to the first computer system, the second

computer system to transmit a discovery signal to the plurality of

broadband modems;

the given one of the plurality of broadband modems to transmit a discovery

acknowledge signal to the second computer system in response to the

discovery signal to establish a binding between the second computer

system and the given one of the plurality of broadband modems; and

the second computer system to enter into a connect state with the given one of the

plurality of broadband modems to accept the ATM cell from the given

broadband modem.

37.   (Previously Presented) The system of claim 36, wherein data formats supported in

the discovery signal are specified.

38.   (Previously Presented) The system of claim 36, wherein a data format selected by

the broadband modem in the discovery acknowledge signal is recorded.

39.   (Currently Amended) A system for managing a broadband modem, comprising:

the broadband modem to

transmit a discovery acknowledge signal over a transmission medium in

response to receiving a discovery signal from a first client

computer system;

forward asynchronous transfer mode (ATM) ATM cells between the first

client computer system and an asymmetrical digital subscriber line

(ADSL)ADSL;

generate and verifying a header error control (HEC) field in the ATM

cellscell;

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enter a sleep state and <u>disable</u> ~~disabling~~ an activity timer upon receiving a

sleep message from the first client computer system;

enter a connect state upon receiving a wake-up event from a second client

computer system; and

enter a disconnect state if ~~the~~ <u>a</u> poll message is not received from the first

client computer system within ~~the~~ <u>a</u> predetermined period of time.

40. (Previously Presented) The system of claim 39, wherein data formats supported in

the discovery signal are specified.

41. (Previously Presented) The system of claim 39, wherein a data format selected by

the broadband modem in the discovery acknowledge signal is recorded.

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